

Pass Guaranteed Quiz Linux Foundation - CKA - Certified Kubernetes Administrator (CKA) Program Exam—Efficient Valid Test Fee



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The CKA certification is widely recognized in the industry and is a valuable asset for IT professionals. Certified Kubernetes Administrator (CKA) Program Exam certification demonstrates that one has the skills and knowledge to manage Kubernetes clusters effectively. CKA certified professionals are in high demand, and the certification can lead to better job opportunities and higher salaries. Certified Kubernetes Administrator (CKA) Program Exam certification is also a stepping stone to more advanced Kubernetes certifications, such as the Certified Kubernetes Security Specialist (CKS) and the Certified Kubernetes Application Developer (CKAD).

The CKA Certification Exam is aimed at IT professionals who have experience with Kubernetes and want to demonstrate their expertise in managing Kubernetes clusters. CKA exam consists of a set of performance-based tasks that test the candidate's ability to perform common Kubernetes administration tasks, such as deploying and managing applications, configuring and securing Kubernetes clusters, and troubleshooting common issues.

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CKA Exam Questions in PDF Format

Our CKA practice exam is specially designed for those people who have not any time to attend the class and prepare Linux Foundation exam tests with less energy. You will understand each point of questions and answers with the help of our CKA Exam Review. And our exam pass guide will cover the points and difficulties of the CKA real exam, getting certification are just a piece of cake.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

Create a Kubernetes secret as follows:

Name: super-secret

password: bob

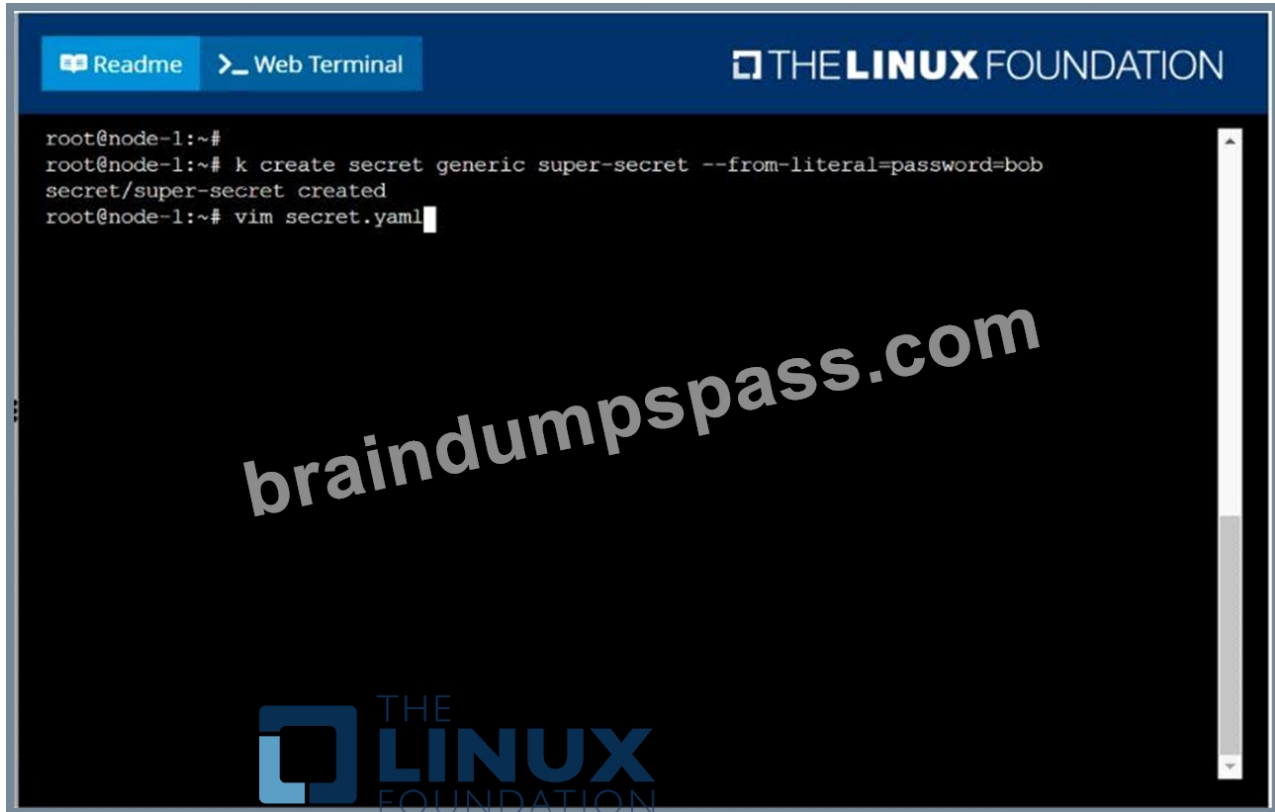
Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super-secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

Answer:

Explanation:

solution



```
root@node-1:~#  
root@node-1:~# k create secret generic super-secret --from-literal=password=bob  
secret/super-secret created  
root@node-1:~# vim secret.yaml
```

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```

apiVersion: v1
kind: Pod
metadata:
  name: pod-secrets-via-file
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: foo
      mountPath: "/secrets"
  volumes:
  - name: foo
    secret:
      secretName: super-secret
~
~
~
~
~
~
~
~
:w

```

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```

root@node-1:~# k create -f secret.yaml
pod/pod-secrets-via-file created
root@node-1:~# vim secret1.yaml
root@node-1:~# k create -f secret1.yaml
pod/pod-secrets-via-env created
root@node-1:~# k get po

```

NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	6h25m
cpu-utilizer-ab2d3s	1/1	Running	0	6h25m
cpu-utilizer-kipb9a	1/1	Running	0	6h25m
ds-kusc00201-2r2k9	1/1	Running	0	40m
ds-kusc00201-hzm9q	1/1	Running	0	40m
foo	1/1	Running	0	6h28m
front-end	1/1	Running	0	6h27m
hungry-bear		Running	0	36m
kucc8	3/3	Running	0	34m
nginx-app-848cfcf495-9prjh	1/1	Running	0	19m
nginx-app-848cfcf495-gl2kh	1/1	Running	0	19m
nginx-app-848cfcf495-pg2c8	1/1	Running	0	19m
nginx-kusc00101	1/1	Running	0	26m
pod-secrets-via-env	1/1	Running	0	4s
pod-secrets-via-file	1/1	Running	0	106s
webserver-84c55967f4-qzjcv	1/1	Running	0	6h43m
webserver-84c55967f4-t4791	1/1	Running	0	6h43m

```

root@node-1:~#

```

NEW QUESTION # 47

Check logs of each container that "busyboxpod-{1,2,3}"

- A. `kubectl logs busybox -c busybox-container-1`
`kubectl logs busybox -c busybox-container-3`
`kubectl logs busybox -c busybox-container-3`
- B. `kubectl logs busybox -c busybox-container-1`
`kubectl logs busybox -c busybox-container-2`

```
kubectl logs busybox -c busybox-container-3
```

Answer: B

NEW QUESTION # 48

Create an nginx pod with containerPort 80 and with a PersistentVolumeClaim "task-pv-claim" and has a mount path "/usr/share/nginx/html"

- A.

```
vim nginx-pvc-pod.yaml
apiVersion: v1
kind: Pod
metadata:
  name: task-pv-pod
spec:
  volumes:
  - name: task-pv-storage
    persistentVolumeClaim:
      claimName: task-pv-claim
  containers:
  - name: task-pv-container
    image: nginx
    ports:
    - containerPort: 80
      name: "http"
    volumeMounts:
    - mountPath: "/usr/share/nginx/html"
      name: task-pv-storage
  kubectl apply -f nginx-pvc-pod.yaml
  // Verify
  kubectl describe po "POD-Name" | grep -i volumes -A5
  Volumes:
  task-pv-storage:
    Type: PersistentVolumeClaim (a reference to a
    PersistentVolumeClaim in the same namespace)
    ClaimName: task-pv-claim
    ReadOnly: false
```
- B.

```
vim nginx-pvc-pod.yaml
apiVersion: v1
kind: Pod
metadata:
  name: task-pv-pod
spec:
  volumes:
  - name: task-pv-storage
    persistentVolumeClaim:
      claimName: task-pv-claim
  containers:
  - name: task-pv-container
    image: nginx
    ports:
    - containerPort: 60
      name: "http"
    volumeMounts:
    - mountPath: "/usr/share/nginx/html"
      name: task-pv-storage
  kubectl apply -f nginx-pvc-pod.yaml
  // Verify
  kubectl describe po "POD-Name" | grep -i volumes -A4
  Volumes:
  task-pv-storage:
```

Type: PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
ClaimName: task-pv-claim
ReadOnly: false

Answer: A

NEW QUESTION # 49

Clean the cluster by deleting deployment and hpa you just created

Answer:

Explanation:

kubectl delete deploy webapp kubectl delete hpa webapp

NEW QUESTION # 50

You have a StatefulSet named 'mysql-cluster' running a MySQL database with 3 replicas. You want to add a new replica to the cluster without disrupting the existing database operations. How do you achieve this while ensuring data consistency and minimal downtime?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Scale up the StatefulSet:

- Increase the 'replicas' value in the StatefulSet definition from 3 to 4. Apply the change using 'kubectl apply -f mysql-cluster.yaml'

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: mysql-cluster
spec:
  replicas: 4
  # ... other StatefulSet configuration ...
```

2. Wait for the new pod to be created: - Monitor the pod creation process using 'kubectl get pods -l app=mysql-cluster'. Wait for the new pod to be created and enter a ready state. 3. Join the new pod to the cluster: - In the new pod's shell, execute the following command to join the existing MySQL cluster: Bash mysql -h -u -p -e "CHANGE MASTER TO MASTER PASSWORD=", MASTER DELAY=0" - Replace with the IP address of one of the existing MySQL replicas. - Replace , and '3306' with the appropriate values for your MySQL setup. 4. Verify the new replica is synchronized: - Use "SHOW SLAVE STATUS" command on the new replica to verify that it's successfully replicating data from the existing cluster. Ensure that the 'Slave IO Running' and 'Slave SQL Running' statuses are both set to 'Yes'. 5. Promote the new replica: - Promote the new replica to a full member of the cluster by updating the StatefulSet definition to include the new pod's hostname. This will typically involve adding a new entry to the 'volumeClaimTemplates' section of the StatefulSet. 6. Test the cluster's health: - Run a series of read and write operations on the database to verify that the new replica is fully integrated and responding correctly. 7. Remove the old pod: - You can now delete the old pod that had the lowest pod index. This will trigger the automatic cleanup of the old volume, ensuring that only the healthy and synchronized replicas remain. By following these steps, you can add a new replica to your MySQL cluster while ensuring minimal downtime and preserving data consistency.]

NEW QUESTION # 51

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